

Wright State University

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WSU Research News

Office of the Vice Provost for Research

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Fall 8-1-2002

## WSU Research News, Fall 2002

Office of Research and Sponsored Programs, Wright State University

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GH EF GJ  
MS JF JK WS

## WSU Participates in Four Hayes Investment Fund Grants

Wright State University is included in four out of the nine Hayes Investment Fund Awards granted by the Ohio Board of Regents for its most recent competition. WSU is the lead institution for two of the projects and a partner in two projects.

The Hayes Investment Fund Program supports investment in Ohio's university research infrastructure, focusing

on basic research and technology conception that is consistent with the goals and objectives of the Ohio Plan for Technology and Economic Development ([http://www.regents.state.oh.us/hefc/20000809\\_ohio\\_plan.pdf](http://www.regents.state.oh.us/hefc/20000809_ohio_plan.pdf)). These investments are intended to enable Ohio Research Programs to gain national and/or international prominence in the targeted areas and to support Ohio's industrial or community needs.

(See "Hayes", Pg. 2)

<i>Project</i>	<i>Lead Institution</i>	<i>Partner Institutions</i>	<i>WSU Investigators</i>	<i>Total Award</i>	<i>WSU Portion of Award</i>
<i>Consortium for Environmental and Process Technologies</i>	Wright State University	Kent State University Ohio State University Miami University University of Cincinnati	Roger K. Gilpin G. Allen Burton Robert W. Ritzi Thomas O. Tiernan Joseph G. Solch Garrett F. VanNess John H. Garrett	\$950,000	\$ 600,000
<i>Ohio Research in Advanced Internet Utilization, Simulation, and Telerobotics</i>	Wright State University	Ohio State University Airforce Institute of Technology	Robert H. Gilkey	\$800,000	\$ 509,973
<i>Ohio Nuclear Magnetic Resonance (NMR) Consortium</i>	Ohio State University	Wright State University Case Western Reserve University Miami University Ohio University University of Akron University of Cincinnati University of Toledo	William A. Feld	\$2,000,000	\$ 77,200
<i>A Genome Research Institute in Ohio</i>	University of Cincinnati	Wright State University	Robert E.W. Fyffe	\$1,700,000	\$ 0



# NOTES From the Director

Most of my time, unfortunately, is spent on things not directly related to the core function of RSP—viz., helping faculty secure funding for their research and other scholarly activities. So I have not

kept up with changes that have been made at the two main sites to which we subscribe for on-line funding opportunities, SPIN and Community of Science. When I did take a look recently, I was amazed. Not only have the underlying databases grown, but also the front-end search capabilities have really improved. Ancillary services have also been added that are too numerous to mention. I would encourage all of you to make full use of these services—the time invested in learning how to make them serve your needs will be well rewarded. Simply go to the RSP home page, at <http://www.wright.edu/rsp>, and click on “Funding Opportunities.” Of course, if you have questions or would like help getting started with any of these services, please let us know!

Bill

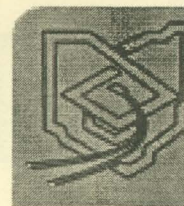
## CONGRATULATIONS, SHERI!

We want to congratulate Sheri Coyle, Grants and Contracts Specialist in the Office of Research and Sponsored Programs, on receiving her **Bachelor of Science in Business** degree in June of 2002. Sheri graduated with a dual major in Accountancy and Finance and a minor in Management Information Systems. Sheri accomplished all this while working full time and being the number one supporter



for all her children's activities (which included attending the graduation of two of her sons at her own graduation!). Everyone in RSP joins in a round of applause for this wonderful achievement!

## Hayes (cont.)



The funds for the **Ohio Research in Advanced Internet Utilization, Simulation, and Telerobotics** project will be used to upgrade and expand

aging computer, projection, and interface hardware to provide state-of-the-art capability at the Virtual Environment Research, Interactive Technology, and Simulation (VERITAS) facility and to build three state-of-the-art virtual environment workstations at OSU, AFIT, and OSC.

**The Consortium for Environmental and Process Technologies** will provide state-of-the-art measurement capabilities and serve as a focal point for research related to all aspects of monitoring, evaluation, and remediation of dioxin and dioxin-like agents.

As a member of the **Ohio Nuclear Magnetic Resonance (NMR) Consortium**, WSU will benefit from Hayes Investment Fund support for a 900 MHz NMR and upgrade of facilities to improve collaboration among consortium partners and increase the likelihood of future external support.

Investigators from the University of Cincinnati, Wright State University, Children's Hospital of Cincinnati, the Air Force Research Lab, Procter and Gamble, and other institutions will be able to conduct research at the newly formed **Genome Research Institute in Ohio (GRI)\***. An essential component of basic, clinical and translational research in the post-genome era is the recapitulation of disease in genetically modified mice. The support from the Hayes Investment Fund will be used to purchase rodent cage rack systems for the housing and maintenance of novel transgenic/knockout mouse lines.

For more information on Ohio's Research Support programs, please go to <http://www.regents.state.oh.us/rsch/rschsupport.html>.

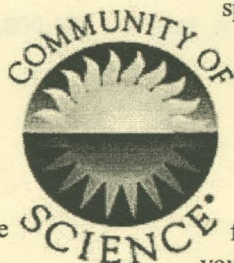
*\*Note: WSU is a participant in one of three awards to be granted under the Biomedical Research and Technology Transfer Program from the State of Ohio. This award will provide major support for the GRI. Look for further details of this award in the next issue of Research News.*

## Who's doing what you do?

WSU maintains a paid subscription to the Community of Science (COS) Funding Alert Service and Expertise Database to assist the faculty and staff in locating funding sources and possible collaborators. By entering your expertise information into the COS database, you can gain access to automatic funding alerts and contact information for colleagues around the world.

Some of the advantages of being part of the COS expertise database:

- **Receiving weekly, automatic funding alerts** tailored to your keywords



- **Learning who is doing your type of research** at other institutions—and even seeing their sources of funding
- **Promoting your research** to possible collaborators and sponsors who also subscribe to the database

You can access these services at <http://registration.cos.com/cos/basic.html> from any WSU domain. Once you are there, follow the instructions to enter your profile. If you have any questions about the registration process or any of the COS services, you may contact Jackie Frederick, the campus liaison, at ext. 2664.



# WSU Internal Funding Competitions to be Announced Soon

## Research Challenge Program

The Research Challenge Early Start/Augmentation Grant (next competition to be announced in October) provides funding to support and improve the effectiveness of basic or applied research projects supported by external sponsors. Augmentation may also include support for pursuit of promising related new directions for an existing project. In this case, the intent would be to strengthen related or follow-up proposals.

All fully-affiliated faculty who have submitted a competitive proposal for basic or applied research with a total first year proposed or awarded budget (sponsor portion) of at least \$30,000 to an external agency through RSP between October 1, 2001 and September 30, 2002 are eligible for this competition. Letters will be sent to eligible faculty inviting them to apply to the program.

The Major Collaboration Grant Program takes place during Winter Quarter. This program is intended to provide funding to encourage the formation of collaborative research partnerships and the submission of collaborative proposals for major external grants and contracts.

Spring Quarter is when the Technology Commercialization Program will be announced. This program is intended to expand the benefits of Wright State University research accomplishments through commercial application and technology development.

## Research Incentive Program

The purpose of the Research Incentive program is to support research and other scholarly activity by the University faculty within the constraints of available resources. The competitive program consists of the following two components that will be announced in the spring:

Research Initiation Grants are intended to provide seed funds for new research efforts likely to attract external funding. Grant budgets are limited to \$8,000. Recently appointed faculty and those without significant external funding are given priority.

Professional Development Grants are intended for more general and diverse scholarly activities and professional renewal. Grant budgets are limited to \$2,500.

## Research Travel Program

The Research Travel Program is intended to support travel related to research initiation and development and to encourage faculty to initiate new research efforts that have a high likelihood to attract external research funding. Applications for the travel program are accepted year round.

For guidelines, eligibility, and application procedures for all internal funding programs, please refer to our web site at <http://www.wright.edu/rsp/internal.html>.

### Internal Funding Deadlines

- |              |  |
|--------------|--|
| October 2002 | • Research Challenge Early Start/Augmentation Program  |
| Winter 2003  | • Research Challenge Major Collaboration Program<br>• Research Incentive Programs ( <i>Research Initiation</i> and <i>Professional Development</i> ) |
| Spring 2003  | • Research Challenge Technology Commercialization Program  |
| Year Round   | • Research Travel  |





# Sponsor Alerts

## *NSF to Return Proposals Not Meeting Review Criteria*

In a recent FASTLANE advisory (NSF Important Notice No. 127), applicants were advised that as of October 1, 2002, proposals that do not address the two merit review criteria in separate statements in the project summary will be returned without review.

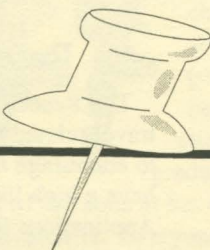
The NSF Grant Proposal Guide (GPG) now reflects that proposers must clearly address, in separate statements within the one-page limitation, both of the NSF merit review criteria in the Project Summary. For further information on

the two merit review criteria, see Chapter III of the NSF Grant Proposal Guide.

NSF Important Notice No. 127 is available at <http://www.nsf.gov/pubsys/ods/getpub.cfm?iin127>. Related NSF Important Notice No. 121, New Criteria for NSF Proposals, and NSF Important Notice No. 125, Merit Review Criteria are available at <http://www.nsf.gov/pubsys/ods/getpub.cfm?iin121> and <http://www.nsf.gov/pubsys/ods/getpub.cfm?iin125>.

## *Examples of Activities Demonstrating a Broader Impact*

The NSF January 2002 Grant Proposal Guide also reiterates that broader impacts resulting from the proposed project must be addressed in the Project Description and described as an integral part of the narrative. Examples illustrating activities likely to demonstrate broader impacts are now available on the NSF website at <http://www.nsf.gov/pubs/2003/nsf032/bicexamples.pdf>.



## Find Funding Sources

A hands-on session that will provide an introduction to the electronic resources available to faculty and staff for matching research interests with funding opportunities.

The workshop will be held in **012 Library** on **November 13**

from 12-1 p.m. The focus of this workshop is the electronic databases available on the RSP homepage, which includes

**Community of Science,**  
**Sponsored Programs Information Network (SPIN),**  
**and**

**The Grant Advisor Plus.**

Registration is limited to the first 15 participants so that everyone is assured access to a computer. We ask that those wishing to attend please register by **November 8<sup>th</sup>**. For additional information or to register, please contact Jackie Frederick by email at [jackie.frederick@wright.edu](mailto:jackie.frederick@wright.edu) or by telephone at ext. 2664.



# *You're Invited*

The Office of Research and Sponsored Programs (RSP)  
invites

**new faculty and those just getting started in research**  
to an **orientation seminar** that will  
introduce the various services available in our office.

The seminar will be held on  
**Thursday, October 17, 2002, 10:00 A.M. to 12:00 Noon**  
in  
**E156 A&B Student Union.**

This seminar will answer these questions:

*"How do I locate external funding opportunities?"*

*"What Federal and University regulations affect my proposal?"*

*"What must I know about administering external funds?"*

*"What opportunities for technology transfer are being explored for me?"*

*"Does the University have funds for research and scholarly projects?"*

*"How will RSP help?"*

In addition, RSP staff will demonstrate how their  
computerized database can be used to match faculty  
research interests with potential funding sources and, if desired, with  
WSU collaborators who share these interests. Your name and interest  
keywords will be added to the database at your request.

If you plan to attend the seminar, please contact  
Jan Power (Ext. 2425) by Friday, October 11, 2002.



# Pre-Award Notes

## Departmental Workshops

The Office of Research and Sponsored Programs offers a funding opportunities workshop (see page 4) open to faculty and staff who would like to learn more about the electronic funding databases found on our web site. In addition to these quarterly workshops, our office will present this workshop for a specific department or college upon their request. If your department or college is interested in offering such a workshop, please contact Jackie Frederick at ext. 2664 to make the arrangements.



## Proposal Strategy

Dr. Craig S. Hartley, Program Manager, Metallic Materials, AFOSR, was recently invited to campus by the Mechanical and Materials Engineering Department to present the seminar, *University Faculty Funding - Up Close and Personal*. Dr. Hartley gave an excellent presentation that covered the proposal solicitation and review process, grant administration, and reporting procedures. The following are excerpts from his slide presentation that answer two important questions regarding research proposals:

### *What is a Proposal?*

- A sales document
- A statement that succinctly presents why the work should be done and what is to be done
- A narrative that explains how the research relates to existing knowledge of the field and previous research
- A document that tells who will do the work
- A budget that explains how much the research will cost, why, and over what period



### *What is Excellent Basic Research?*

- Something that will change the way people think
- Something that will be widely used by others
- Something that will endure

## The Largest Funding Resource For Your Research Is One Click Away



**Community of Science (COS) Provides Access to More Than 20,000 Funding Opportunities**

**COS, the leading research Web site, also helps you:**

- Find Funding
- Identify Collaborators and Competitors
- Publicize Your Research

**WSU is a member of COS! To get your free username and password go to <http://login.cos.com>. For more information, contact Jackie Frederick, the campus liaison, at ext. 2664 or [jackie.frederick@wright.edu](mailto:jackie.frederick@wright.edu)**

**[www.cos.com](http://www.cos.com)**

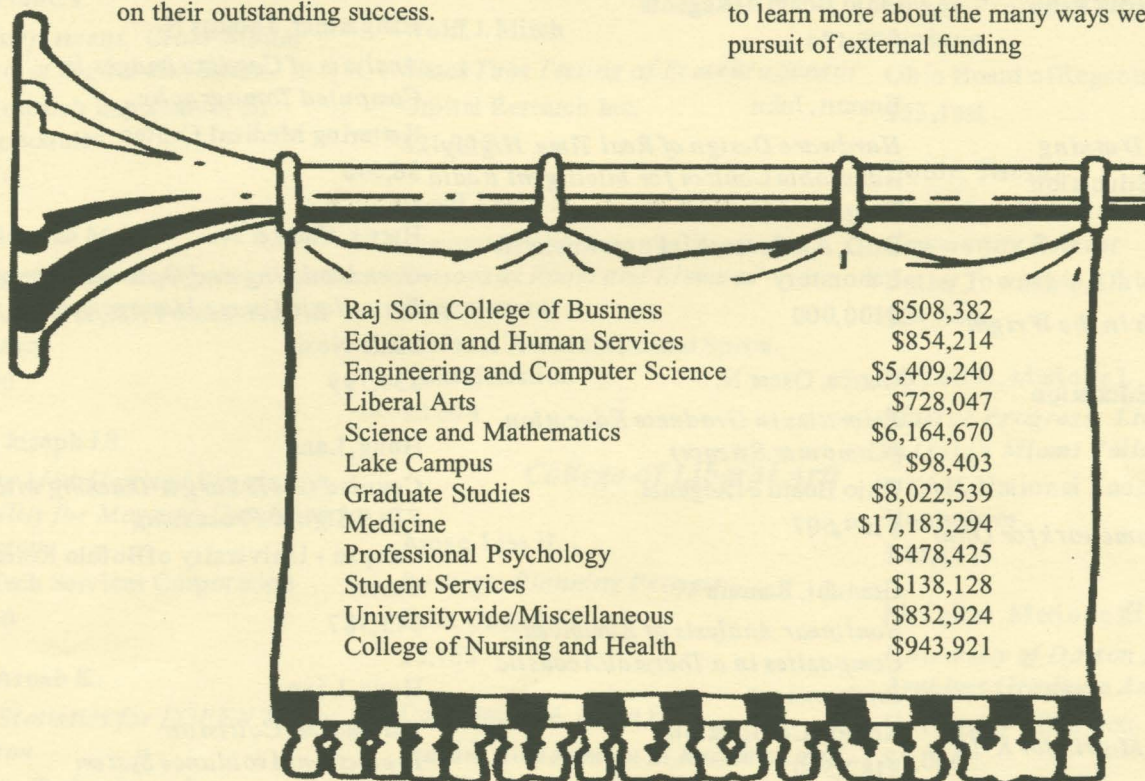


# WSU Received over \$40 Million in Awards for FY 2001-2002

For the third year in a row, the total awards for externally sponsored grants and contracts passed the \$40 million dollar mark with a total of \$41,362,186. The WSU faculty and staff submitted a total of 766 proposals during FY 2001-2002 (compared to 693 the previous year), and the university received 537 awards during this time period (compared to 481 the previous year). The Office of Research and Sponsored Programs would like to commend Wright State faculty and staff for their tremendous effort and congratulate them on their outstanding success.

The federal government still remains the largest funding source, followed by the State of Ohio, non-profit agencies, industrial sponsors, other governmental agencies, miscellaneous sources, and foreign sponsors (in that order). For a breakdown of awards funded to each college or school, see the insert below

We look forward to working with the faculty and staff again this coming year. We encourage you to visit our Website at <http://www.wright.edu/rsp/> or drop by our office to learn more about the many ways we can assist you in the pursuit of external funding



Raj Soin College of Business	\$508,382
Education and Human Services	\$854,214
Engineering and Computer Science	\$5,409,240
Liberal Arts	\$728,047
Science and Mathematics	\$6,164,670
Lake Campus	\$98,403
Graduate Studies	\$8,022,539
Medicine	\$17,183,294
Professional Psychology	\$478,425
Student Services	\$138,128
Universitywide/Miscellaneous	\$832,924
College of Nursing and Health	\$943,921

## Overview of the Office of Research and Sponsored Programs

The Office of Research and Sponsored Programs (RSP) works with faculty and staff to increase externally funded research and other sponsored programs. RSP staff provides the following services:

- Identification of External Sources of Funding
- Dissemination of Funding Information
- Liaison with Sponsors
- Proposal Development and Preparation
- Budget Preparation
- Institutional Compliance
- Institutional Authorization
- Proposal Transmittal
- Contract Negotiations
- Post-Award Administration of Externally Funded Programs
- Administration of Internally Funded Programs

- Technology Transfer
- Government Security

*Research News* and *Funding Update* are publications of RSP. *Research News*, published periodically during the academic year, covers grant awards and related topics of interest. Descriptions and deadlines of upcoming programs are listed in RSP's electronic publication, *Funding Update*, available at <<http://www.wright.edu/rsp/>>.

If you would like to be placed on the mailing list or would like further information on funding opportunities, application procedures, or other services provided by the office, please contact us (ext. 2425, [rsp@wright.edu](mailto:rsp@wright.edu)) or visit the office in 201J University Hall.



# AWARDS

*The grants and contracts on these pages were awarded from May 2002 through August 2002*

## **College of Education and Human Services**

Barnhart, Michael L.  
*Ohio First-Summer Training*  
Ohio Department of Education  
\$21,443

Barnhart, Michael L.  
*Ohio First-Summer Training*  
Ohio Department of Education  
\$3,900

Helms, Ronald G.  
*Professional Growth in the Wright  
Direction*  
Ohio Department of Education  
\$8,000

Mathies, Bonnie K.  
*K-16 Technology Framework for Ohio  
Educators*  
Ohio Board of Regents  
\$40,000

Mathies, Bonnie K.  
*Novice/Practitioner Matrix for K-16  
Teachers*  
Ohio SchoolNet  
\$20,358

O'Connor, C. Richele  
Dunne, James D.  
*Learning Communities Readiness Gra*  
Ohio Learning Network  
\$3,000

Tomlin, James H.  
*Professional Development Workshop*  
Fairborn City Schools  
\$600

## **College of Engineering and Computer Science**

Bourbakis, Nikolaos G.  
*Priorities in Graduate Education*  
Ohio Board of Regents  
\$76,424

Emmert, John  
*Hardware Design of Real Time, Highly  
Adaptable Control for Intelligent Radio  
Frequency Front Ends*  
DoD, Air Force, Air Force Research  
Laboratory  
\$100,000

Garcia, Oscar N.  
*Priorities in Graduate Education  
(Computer Science)*  
Ohio Board of Regents  
\$109,607

Grandhi, Ramana V.  
*Nonlinear Analysis of Advanced  
Composites in a Thermal/Acoustic  
Environment*  
Anteon Corporation  
\$182,500

Grandhi, Ramana V.  
*Development of a Thermo-Mechanically  
Induced Geometric Variation Estimator*  
Ohio State University  
\$80,000

Grandhi, Ramana V.  
*DAGSI Cost Share: Development of a  
Thermo- Mechanically Induced  
Geometric Variance Estimator*

Dayton Area Graduate Studies Institute  
(DAGSI)  
\$30,000

Hangartner, Thomas N.  
*Evaluation of a Novel Treatment for  
Osteoarthritis of the Knee*  
Procter & Gamble Company  
\$68,997

Hangartner, Thomas N.  
*Analysis of Cardiac Images by  
Computed Tomography*  
Kettering Medical Center  
\$6,600

Harris, Chester A.  
*User Modeling and Optimization of  
Lexis-Nexis Queue Management*  
Lexis-Nexis  
\$34,799

Hong, Lang  
*Coupled GMTI Target Tracking with  
STAP Signal Processing*  
Calspan - University of Buffalo Research  
Center  
\$73,387

Hong, Lang  
*Automotive Collision  
Prediction/Avoidance System*  
Automotive Systems Laboratory, Inc.  
\$71,500

Hong, Lang  
*Multirate Interacting Multiple Model  
Fusion*  
MRLet's Technologies, Inc.  
\$20,000

Klingbeil, Nathan W.  
*GOALI: Laser Additive Manufacturing  
of Aerospace Components*

NSF, Miscellaneous  
\$150,000

*The staff of the Office of Research and Sponsored Programs congratulates those receiving external funds,  
and we encourage those with unfunded proposals to consult with us about resubmission.*



Lieh, Junghsen <i>Advanced Control System for Manufacturing Processes - Phase III</i> Delphi Chassis Systems \$54,000	Slater, Joseph C. <i>Intergovernmental Personnel Agreement/Specialized Research (J. Slater)</i> Air Force Institute of Technology (AFIT) \$23,980	Dockery, Jane L. <i>Storm Water and Watershed Management Assessment</i> Water Management Association of Ohio \$5,000
Narayanan, Sundaram <i>Bay of Biscay Agent Simulation Environment</i> Air Force Institute of Technology (AFIT) \$19,029	Wolff, J. Mitch <i>Precision Design</i> DoD, Air Force, Air Force Research Laboratory \$39,570	Dockery, Jane L. <i>Grant Consulting Services</i> B.W. Greenway Land Trust \$5,000
Quek, Francis <i>REU Supplement: Cross-Modal Analysis of Signal and Sense</i> NSF, Research Experiences for Undergraduates \$50,000	Wolff, J. Mitch <i>Shock Tube Testing of Pressure Sensor</i> Orbital Research Inc. \$21,927	Dustin, Jack L. <i>Urban Projects - Urban Universities Linkage</i> Ohio Board of Regents \$53,140
Rizki, Mateen M. <i>Evolving Pattern Recognition Systems</i> DoD, Air Force, Air Force Research Laboratory \$87,500	Wolff, J. Mitch <i>Dynamic Calibration of Pressure Sensors at Room and Elevated Temperatures</i> National Aeronautics and Space Administration \$8,000	Hottle, Teresa L. <i>Township Citizen Survey and Community Retreat</i> Butler Township, Ohio \$24,547
Shang, Joseph J.S. <i>Develop Modeling and Simulation Capability for Magneto-Gasdynamic Phenomena</i> SelectTech Services Corporation \$18,000	<b>College of Liberal Arts</b>	
Shaw, Arnab K. <i>Order Statistics for FOPEN Target Detection</i> Sverdrup Technology, Inc. \$25,000		
Shaw, Arnab K. <i>Controlling the Apparent Vocal Effort of Synthetic Speech</i> Veridian Engineering \$4,996	Arose, Lisa H. <i>Strategic Planning Process</i> Faith United Church \$3,162	McLellan, Marjorie L. <i>Making Progress: Living and Working in Ohio's Miami Valley, 1890-1929</i> NFAH, National Endowment for the Humanities \$40,471
Siferd, Raymond E. <i>Parallel Subsampling Frequency Interleaved Delta Sigma Bandpass ADC</i> Systran Federal Corporation \$33,000	Curry-Jackson, Anita E. <i>Student Achievement in Research and Scholarship (STARS)</i> Miami University \$3,383	McLellan, Marjorie L. <i>University of Dayton Roesch Library Archives Graduate Assistant</i> University of Dayton \$7,000
	Dockery, Jane L. <i>Healthy Ohioans Health Communities Readiness Demonstration Subsidy Awards</i> Greene County Combined Health Distri \$37,500	McLellan, Marjorie L. <i>Sinclair Community College Archives Graduate Assistant</i> Sinclair Community College \$7,000
	Dockery, Jane L. <i>AIDS Foundation Telephone Survey</i> AIDS Foundation of Miami Valley \$10,482	McLellan, Marjorie L. Blakelock, Jane P. <i>Community Connections</i> Ohio Campus Compact \$3,000
		Nelson, Sharon H. <i>Iddings Foundation Matching Funds</i> Ohio Department of Education \$2,259



Rogers, Marita C.  
Curry-Jackson, Anita E.  
*Geriatric Enrichment in Social Work Education*  
Council on Social Work Education  
\$30,000

Subban, Jennifer  
*Women of Color in Ohio*  
Cleveland State University  
\$14,500

### **College of Nursing and Health**

Graham, Margaret Clark  
*Online Family Nurse Practitioner 1st and 2nd Master's*  
DHHS, Health Resources and Services Administration  
\$219,045

Martin, Patricia A.  
*Professional Nurse Traineeship*  
DHHS, Health Resources and Services Administration  
\$75,183

Martin, Patricia A.  
*Miami Valley Hospital Operating Agreement*  
Miami Valley Hospital  
\$45,000

### **College of Science and Mathematics**

Arasu, Krishnasany T.  
*Arrays over Small Phase Having Desirable Correlation Properties*  
NSF, Research Experience for Teachers  
\$20,000

Arlan, Larry G.  
*Scabies: Biology, Culture, Host Specificity and Antigens*  
DHHS, National Institute of Allergy and Infectious Diseases (NIAID)  
\$312,041

Arlan, Larry G.  
*Immunoanalytical Support for Identification of and Treatment of Allergens*  
Procter & Gamble Company  
\$93,434

Arlan, Larry G.  
*Diet and Allergen Production*  
Iams Company, The  
\$23,329

Arlan, Larry G.  
*Allergy Studies*  
Clorox Company, The  
\$20,000

Arlan, Larry G.  
*House Dust Mite Purity Analysis*  
More Than One Source of Support  
\$6,041

Baird, Scott E.  
*Evolution of Axial Specification in Caenorhabditis*  
DHHS, National Institute of General Medical Sciences (NIGMS)  
\$143,000

Basista, Beth A.  
*Professional Development Workshop*  
Huber Heights Schools  
\$1,540

Burton, G. Allen  
*5th International Symposium on Sediment Quality Assessment*  
U.S. Environmental Protection Agency  
\$10,000

Carmichael, Wayne W.  
*Determination and Significance of Emerging Algal Toxins (Cyanobacteria)*  
More Than One Source of Support  
\$125,000

Carmichael, Wayne W.  
*Preparation of Cyanotoxin Standards and Development of ELISA Procedure for Quantifying Cylindrospermopsin and Anatoxin-A*

U.S. Environmental Protection Agency  
\$49,075

Carmichael, Wayne W.  
*Production of Cylindrospermopsin - State of Florida*  
University of South Florida  
\$25,000

Carmichael, Wayne W.  
*Characterization of Cyanobacteria Secondary Metabolites*  
More Than One Source of Support  
\$5,470

Cipollini, Donald F.  
*Cross-Resistance Between Fungal Pathogens and Insects in the Austrian Pine/Sphaeropsis sapinea Pathosystem*  
Ohio Plant Biotechnology Consortium  
\$2,500

Colle, Herbert A.  
*Behavioral Research Projects: 5*  
NCR Corporation  
\$9,805

Farrell, Ann M.  
*Professional Development Workshop*  
Fairborn City Schools  
\$600

Foy, Brent D.  
Reo, Nicholas V.  
Svobodny, Thomas P.  
*Bioinformatic Support for Toxicogenomics*  
Dayton Area Graduate Studies Institute (DAGSI)  
\$16,851

Gilkey, Robert H.  
Gilkey, Robert H.  
*State-of-the-Art Infrastructure to Support Ohio Research in Advanced Internet Utilization, Simulation, and Telerobotics*  
Ohio Board of Regents - Hayes Investment Fund  
\$800,000

Gilkey, Robert H.  
*Target Detection in Virtual Environment*

Veridian Engineering  
\$20,000



Gilpin, Roger K. Burton, G. Allen Ritzi, Jr., Robert W. Tiemann, Thomas O. Solch, Joseph G. VanNess, Garrett F. <i>Consortium for Environmental and Process Technologies</i> Ohio Board of Regents - Hayes Investment Fund \$950,000	Grasman, Keith A. <i>Reproductive and Developmental Toxicity of Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) to Roanoke River Wood</i> U.S. Department of Interior, Fish & Wildlife Service \$30,000	Ketcha, Daniel M. Turnbull, Kenneth <i>A Series of Workshops in the Chemical Sciences</i> Georgia State University \$12,600
Gilpin, Roger K. Garrett, John H. VanNess, Garrett F. <i>Chemical Analysis of Biological Materials</i> State of New York \$109,250	Grasman, Keith A. <i>Monitoring of Caspian Tern and Herring Gull Productivity and Immune Functions</i> U.S. Department of Interior, Fish & Wildlife Service \$6,000	Kozlowski, Gregory <i>Studies of YBCO Coated Conductor Processing Using Pulsed Laser Deposition</i> Anteon Corporation \$20,923
Gilpin, Roger K. Garrett, John H. VanNess, Garrett F. Rukunda, Farai <i>Measurements of Dioxins and Furans in Environmental Samples</i> U.S. Environmental Protection Agency \$105,400	Grasman, Keith A. <i>Assessment of Pollutants and Health Effects in Wild and Captive Birds</i> Canadian Wildlife Service \$1,500	Krane, Dan E. <i>Forensic DNA Profiling</i> More Than One Source of Support \$300
Gilpin, Roger K. Solch, Joseph G. VanNess, Garrett F. <i>Measurements of Dioxins and Furans in Environmental Samples</i> U.S. Environmental Protection Agency \$24,660	Greenberg, Marc S. Burton, G. Allen <i>Intergovernmental Personnel Agreements - Greenberg</i> U.S. Environmental Protection Agency \$147,514	Look, David C. <i>Deep-Level Transient Spectroscopy Study of Defects and Impurities in GaN</i> DoD, Air Force Office of Scientific Research (AFOSR) \$174,970
Gilpin, Roger K. Solch, Joseph G. VanNess, Garrett F. <i>Measurement of Non-Point Toxic Pollutants</i> City of Honolulu, HI \$3,075	Huang, Qingbo <i>Equations of Monge-Ampere Type and Fully Nonlinear Equations</i> NSF, Grants for Scientific Research \$60,536	Look, David C. <i>Materials for High Speed Devices</i> DoD, Air Force, Air Force Research Laboratory \$152,000
Gilpin, Roger K. Rukunda, Farai <i>State of Ohio Sludge Program</i> More Than One Source of Support \$2,300	Katovic, Vladimir <i>Synthesis and Development of Elevated Temperature Electrocatalysts for Alcohol Based Fuel Cells</i> Universal Energy Systems, Inc. (UES, Inc.) \$49,595	Look, David C. <i>Point Defects and Impurities Associated With Extended Defects in GaN</i> DoD, Office of Naval Research \$50,000
	Ketcha, Daniel M. <i>Combinatorial Chemistry Curriculum Development</i> Procter & Gamble Company \$50,000	Look, David C. <i>Hall Effect Measurements</i> Varian Associates, Inc. \$770
		Nagy, Allen L. <i>Higher Order Mechanisms in Color Discrimination</i> DHHS, National Eye Institute (NEI) \$143,000



Ritzi, Jr., Robert W. Dominic, David F. <i>Collaborative Research: Solute Transport in Multimodal, Heterogeneous Geological Formations Combining Sedimentologic and Engineering Approaches</i> NSF, Miscellaneous \$66,249	Watts, Doyle R. <i>Application of Remote Sensing to the Management of the Control of the Gypsy Moth and Other Forest Pests</i> Ohio Aerospace Institute \$71,250	Schumm, Gregory F. <i>Grand Lake/Mercer County Project</i> Grand Lake/Mercer County Research, Inc. \$20,826
Shalin, Valerie L. <i>Roles for Technology in the Facilitation of Distributed Work in Complex Dynamic Domain</i> National Aeronautics and Space Administration \$30,669	Watts, Doyle R. <i>OhioView Virtual University Program in Remote Sensing and GIS Technology: Phase I</i> Kent State University \$30,473	Schumm, Gregory F. <i>Targeted Training Grant - Stamco</i> Lorain County Community College \$15,250
Shebilske, Wayne L. <i>Visual Orientation and Spatial Memory: Mechanisms and Countermeasures</i> National Space Biomedical Research Institute \$32,085	Watts, Doyle R. <i>NASA Mars EVA Prototype - Phase I; Earth Analogs for Human Exploration of Mars</i> University of Cincinnati \$26,000	Schumm, Gregory F. <i>Targeted Training Grant - BASF Corporation</i> Lorain County Community College \$11,950
Slattery, William <i>Delivering the ESSEA On-Line Courses for K-12 Teachers</i> Institute for Global Environmental Strategies, Inc. (The) \$50,904	Wheatly, Michele G. <i>Calcium Homeostasis Modeled on the Freshwater Crayfish Molting Cycle: From Physiology to Molecular Regulation</i> NSF, Research in Undergraduate Institutions \$95,000	Schumm, Gregory F. <i>Targeted Training Grant - United Manufacturer's Alliance</i> Lorain County Community College \$7,550
Slattery, William <i>Evaluation of ESSEA On-Line Courses</i> Wheeling Jesuit University \$12,800	<b>Lake Campus</b>	
Tsang, Pamela S. <i>Aging and Pilot Time-Sharing Performance</i> DHHS, National Institute on Aging (NIH) \$182,085		
Turnbull, Kenneth <i>Polymer-Supported and Solution-Phase Routes to Polyene Monomers for NLO Applications</i> Anteon Corporation \$15,066	Bryan, Paula K. <i>Literacy Mini Conference</i> Hancock County Educational Service Center \$4,119	<b>Raj Soin College of Business</b>
	Miller, Julie M. <i>Expanded Enrollment Grant Initiative - Information Technology</i> James A. Rhodes State College (formerly Lima Technical College) \$10,000	Scherer, Robert F. Bodey, Michael W. <i>Business Assessment Classes</i> Ohio Rehabilitation Services Commission \$660
	Miller, Julie M. <i>Expanded Enrollment Grant Initiative - Engineering and Manufacturing</i> James A. Rhodes State College (formerly Lima Technical College) \$10,000	Sylvester, Roger <i>Study Tour on Economic Education</i> National Council on Economic Education \$5,555
		<b>School of Graduate Studies</b>
		Sanville, Thomas J. <i>OhioLINK</i> Ohio Board of Regents \$1,737,122
		Thomas, Jr., Joseph F. <i>Ohio's Research Challenge - "01-03" Biennium</i> Ohio Board of Regents \$178,793



## School of Medicine

Alter, Gerald M. <i>Graduate Research Assistant Stipend - Wey</i> Harbor-UCLA Research & Education Institute \$16,548	Broxson, Jr., Emmett H. <i>Treatment of Acute Lymphocytic Leukemia or Non-Hodgkin's Lymphoma</i> Ortho Biotech Products, L.P. \$11,250	Dean, Jay B. <i>Hyperbaric Imaging Equipment: Fluorescence Microscopy for In Vitro Studies of Oxygen Toxicity</i> DoD, Other \$243,514
Alter, Sherman J. <i>Treatment of Pediatric Patients for Infections</i> Bayer Corporation \$1,200	Carlson, Robert G. Siegal, Harvey A. <i>MDMA/Club Drug Use and STD/HIV Sex Risk Behavior in Ohio</i> DHHS, National Institute on Drug Abuse (NIDA) \$586,628	Demerath, Ellen W. <i>AHA-Ohio Valley Affiliate Undergraduate Student (R. Lund) Summer Research Fellowship</i> American Heart Association - Ohio Valley Affiliate \$2,500
Alvarez-Leefmans, F. Javier Olson, James E. <i>Cell Volume Regulation in Neurons and Glia</i> DHHS, National Institute of Neurological Disorders and Stroke (NINDS) \$288,097	Cauley, Katherine L. <i>The Midwest Health Professions Service Learning Consortium</i> Corporation for National Service \$300,000	Donnelly, John F. <i>Predoctoral Training in Primary Care</i> DHHS, Health Resources and Services Administration \$33,182
Berberich, Steven J. <i>MdmX Regulation of the p53 Tumor Suppression Protein</i> DHHS, National Cancer Institute (NCI) \$225,225	Cauley, Katherine L. <i>Montgomery County Medicaid Outreach Services</i> Montgomery County Department of Job and Family Services \$262,753	Dunn, Margaret M. <i>DCOP Fiscal Agency (12/01 - 5/03)</i> Dayton Clinical Oncology Program (DCOP) \$769,265
Berberich, Steven J. <i>Effects of 2-Deoxy-Glucose on Gene Expression in U-87 Glioblastomas</i> Kettering Medical Center \$20,000	Cauley, Katherine L. <i>AHEC Support</i> Ohio Board of Regents \$53,861	Fyffe, Robert E. W. <i>Mechanisms of Mammalian Neuronal Integration</i> DHHS, National Institute of Neurological Disorders and Stroke (NINDS) \$296,593
Bonnet, Michael H. <i>Neurocrine Sleep Consortium Agreement - Transient Insomnia</i> Neurocrine Biosciences, Inc. \$66,636	Chen, Yan-fang Morris, Mariana <i>Role of Brain Angiotensin AT1a and AT1b Receptors in the Control of Blood Pressure and Osmotic Balance</i> American Heart Association - Ohio Valley Affiliate \$39,000	Fyffe, Robert E. W. <i>Regulation of Spinal Interneuron Input-Output Functions</i> DHHS, National Institute of Neurological Disorders and Stroke (NINDS) \$289,680
Bonnet, Michael H. <i>Neurocrine Sleep Consortium Agreement - Primary Insomnia</i> Neurocrine Biosciences, Inc. \$26,562	Clasen, Mark E. <i>Expansion of Alliance for Research in Community Health</i> DHHS, Health Resources and Services Administration \$138,304	Leffak, I. Michael <i>Human c-myc Gene Replication Origin</i> DHHS, National Institute of General Medical Sciences (NIGMS) \$290,785
Bosworth, Michael F. <i>Creating Educational Partnerships in Diverse Communities</i> DHHS, Health Resources and Services Administration \$134,380	Cool, David R. <i>Vasopressin Cytotoxicity in Inherited Diabetes Insipidus</i> DHHS, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) \$243,100	



Li, Yingjun Stern, Javier E. <i>GABAergic Synaptic Function in Hypothalamic Vasopressin Neurons: Contribution to the Physiopathology of Heart Failure</i> American Heart Association - Ohio Valley Affiliate \$37,000	Pearson, John C. Mathews, Thomas Nieder, Gary L. Anderson, Mark D. <i>Neurologic Resource in the QuickTime Streaming Format</i> DHHS, National Library of Medicine (NLM) \$39,718	Siegel, Harvey A. <i>Ohio Substance Abuse Monitoring Network</i> Ohio Department of Alcohol & Drug Addiction Services \$302,399
Moore, Dennis C. <i>Addressing Disability Rehabilitation Issues Among Racial Minorities: A Focus on HIV and/or Substance Use Disorders</i> Howard University \$30,000	Putnam, Robert W. Dean, Jay B. <i>Intracellular pH Responses of Central Chemoreceptors</i> DHHS, National Heart, Lung, and Blood Institute (NHLBI) \$243,100	Stern, Javier E. <i>Hypothalamic Role in Hypertension</i> DHHS, National Heart, Lung, and Blood Institute (NHLBI) \$293,155
Moore, Dennis C. <i>RRTC on Drugs and Disabilities Training</i> National Occupational Competency Testing Institute (NOCTI) \$2,000	Reo, Nicholas V. <i>Upgrade in NMR Research Instrumentation for the Magnetic Resonance Laboratory</i> DoD, Other \$478,485	Stern, Javier E. <i>Cellular Mechanisms Controlling Central Oxytocinergic Activity. Role in the Pathophysiology of Autism</i> Cure Autism Now Foundation \$40,000
Morris, Mariana Stern, Javier E. <i>Role of Angiotensin Receptors in Central Osmosensitivity</i> DHHS, National Heart, Lung, and Blood Institute (NHLBI) \$334,710	Reo, Nicholas V. <i>Upgrade in NMR Research Instrumentation for the Magnetic Resonance Laboratory</i> Ohio Board of Regents - Action Fund \$235,242	Sun, Shumei S. Roche, Alexander F. Chumlea, W. Cameron <i>Sexual Maturity for U. S. Children: Relationships With Growth</i> DHHS, National Institute of Child Health and Human Development (NICHD) \$260,400
Morris, Mariana Sun, Shumei S. <i>Short-Term Training for Minority Students (STREAMS) at WSU</i> DHHS, National Heart, Lung, and Blood Institute (NHLBI) \$79,453	Rogers, Nikki L. Towne, Bradford Siervogel, Roger M. <i>Associations Between Body Composition and Cardiovascular Disease Risk Factors in Postmenopausal African American and Caucasian Women</i> American Heart Association - Ohio Valley Affiliate \$39,000	Sun, Shumei S. <i>Trial of Alendronate Disodium in Pediatric Gaucher Disease</i> Children's Hospital Medical Center (Cincinnati) \$36,363
Morris, Mariana Stills, Harold F. <i>Generation and Characterization of a Novel Antisera</i> Dominy Levin Psychoendocrine, Inc. \$2,000	Royce, Frederick H. <i>Inhalation Therapy for Management of Cystic Fibrosis</i> Children's Hospital Research Foundation \$10,028	Sun, Shumei S. Schubert, Christine M. <i>Age-Related Changes and Determinants of Cardiovascular Risk Factors During Middle-Age: The Fels Longitudinal Study</i> American Heart Association - Ohio Valley Affiliate \$17,000
Olson, James E. <i>EMF/SAEM Medical Student (R. Turner) Fellowship</i> Emergency Medicine Foundation \$2,400		Towne, Bradford Siervogel, Roger M. Demerath, Ellen W. Czerwinski, Stefan Aleksander <i>Genetic Epidemiology of Aging and Body Composition</i> DHHS, National Institute on Aging (NIA) \$366,933



Turchi, John J.  
*Recognition and Repair of  
 Cisplatin-DNA Damage*  
 DHHS, National Cancer Institute (NCI)  
 \$264,550

### ***School of Professional Psychology***

Glaus, Kathleen D.  
*Scholarships for Disadvantaged  
 Students Program (SOPP)*  
 DHHS, Health Resources and Services  
 Administration  
 \$27,595

Malloy, Kathleen A.  
*Preventing Abuse in the Home (PATH)*  
 Ohio Governor's Office of Criminal Justice  
 Services  
 \$50,000

VandeCreek, Leon D.  
*Practicum Training*  
 Samaritan Counseling Center  
 \$6,000

Warfield, Janeece  
*PECE-PACT: Parents Early  
 Childhood Education/Positive Action  
 Choices Training*  
 Montgomery County ADAMH Services  
 Board  
 \$67,597

Winfrey, LaPearl  
*SOPP Student Practicum Training*  
 Montgomery County ADAMH Services  
 Board  
 \$36,000

Winfrey, LaPearl  
*Practicum Training*  
 Trotwood-Madison Schools  
 \$30,000

Winfrey, LaPearl  
*Practicum Training*  
 Employee Care of MVH/Good Sam  
 Hosp.  
 \$24,000

Winfrey, LaPearl  
*Post-Doctoral Training*  
 Twin Valley Psychiatric System  
 \$20,000

Winfrey, LaPearl  
*Practicum Training*  
 Artemis  
 \$18,000

Winfrey, LaPearl  
*Pre-Doctoral Training*  
 Children's Medical Center (Dayton)  
 \$16,000

Winfrey, LaPearl  
*Practicum Training*  
 Consumer Advocacy Model Program  
 \$12,000

Winfrey, LaPearl  
*Pre-Doctoral Training*  
 Twin Valley Psychiatric System  
 \$8,000

Winfrey, LaPearl  
*Practicum Training*  
 Twin Valley Psychiatric System  
 \$6,000

Winfrey, LaPearl  
*Practicum Training*  
 Central Clinic  
 \$6,000

Winfrey, LaPearl  
*Practicum Training*  
 Darke County Mental Health Center  
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Winfrey, LaPearl  
*Practicum Training*  
 Matrix Psychological Services  
 \$6,000

Winfrey, LaPearl  
*Practicum Training*  
 Pain Care Institute  
 \$6,000

Winfrey, LaPearl  
*Practicum Training*  
 Shelby County Counseling Center  
 \$6,000

Winfrey, LaPearl  
*Practicum Training*  
 Dettmer Hospital  
 \$6,000

Winfrey, LaPearl  
*Practicum Training*  
 Greene Memorial Hospital  
 \$6,000

Winfrey, LaPearl  
*Practicum Training*  
 University of Dayton  
 \$5,500

Winfrey, LaPearl D.  
*Practicum Training*  
 Dayton Urban League  
 \$12,000

Yung, Betty  
*Program Evaluation for Commission  
 Grants*  
 Ohio Commission on Minority Health  
 \$20,000

Yung, Betty  
*Violence Prevention Training*  
 Rochester City Schools  
 \$12,030

### ***Student Affairs***

Darr, David R.  
*Scholarships for Disadvantaged  
 Students (Medicine)*  
 DHHS, Health Resources and Services  
 Administration  
 \$110,384

Gabriele, Karen Marie  
 Gerken, Victoria  
*Uniform Commutation Allowance*  
 DoD, Air Force, AFROTC  
 \$2,262

Nord, Douglas C.  
 Streeter-Ferrari, Michelle  
*Building Resources in the Development  
 of Global Education for International  
 Business*  
 U.S. Department of Education  
 \$82,000



## RESEARCH NEWS

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<http://www.wright.edu/rsp/>

Nord, Douglas C.

Scherer, Robert F.

Schlagheck, Donna M.

*Encountering the Old and New Worlds:*

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*Involvement in European and Western*

*Hemispheric Studies*

U.S. Department of Education

\$75,000

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Kennedy, Sandra D.

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Kennedy, Sandra D.

*Ohio Labor Management Cooperation*

*Partners (OLMCP) Workshops*

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### Universitywide/Miscellaneous

Polk, Simone

*Emergency Medical Services Training  
and Equipment Program*

Ohio Department of Public Safety

\$4,420

Ralston, Keith

*Personnel Agreement - Heard*

Southwestern Ohio Council for Education

\$96,058

If you are interested in applying for an external funding program but are not sure how or where to begin, RSP has posted a Guide for Proposal Development on our Website: [www.wright.edu/rsp](http://www.wright.edu/rsp) under the "Proposal Preparation" link. This guide leads potential Principal Investigators through some of the basic steps for finding sponsors for a project and submitting a proposal.

As always, our staff is here to assist you with any questions you may have about proposal submission. We hope to see your name soon under the award list in Research News.

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